

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A reforming catalyst for use in feed streams containing steam, CO₂, and CO at levels such that the H₂O/CH₄ is less than 0.8 and the CO₂/CH₄ is greater than 0.5, the feed stream further containing relatively high quantities of sulfur compounds, wherein said catalyst comprises ~~comprising~~ from about 0.5 wt% to about 25 wt% of a calcium compound additive, from about 2 wt% to about 30 wt% nickel, from about 25 wt% to about 98 wt% of an aluminum compound carrier, and from ~~about~~ 0.01 wt% to ~~about~~ 20 wt% of titanium, and wherein said catalyst has a pore volume greater than about 0.2 cc/g.

Claim 2 (original). The catalyst of Claim 1 wherein the calcium compound combined with the aluminum compound comprises calcium aluminate.

Claim 3 (original). The catalyst of Claim 1 wherein the amount of free calcium oxide present in the catalyst is not detectable by x-ray diffraction.

Claim 4 (original). The catalyst of Claim 1 wherein the calcium compound comprises from about 2 wt% to about 16 wt% of the catalyst.

Claim 5 (original). The catalyst of Claim 1 wherein the nickel comprises from about 2 wt% to about 20 wt% of the catalyst.

Claim 6 (previously presented). The catalyst of Claim 1 having a BET surface area greater than about 4 m²/g.

Claim 7 (previously presented). The catalyst of Claim 1 having a BET surface area from about 6 m²/g to about 30 m²/g.

Claim 8 (previously presented). The catalyst of Claim 1 having a nickel specific surface area greater than about 2 m²/g.

Claim 9 (previously presented). The catalyst of Claim 1 having a nickel specific surface area greater than about 4 m²/g.

Claim 10 (cancelled).

Appl. No. 10/806,259
Amdt. dated October 11, 2007
Reply to Office Action of July 11, 2007

Claim 11 (currently amended). The catalyst of Claim 1 wherein the titanium comprises from ~~about~~ 0.1 wt% to ~~about~~ 10 wt% of the catalyst.

Claims 12 - 18 (cancelled).

Claims 19 – 20 (previously cancelled).